

PARTIAL TRANSLATION OF JP 2003-51386 A

Publication Date: February 21, 2003

Title of the Invention: ORGANIC ELECTROLUMINESCENCE ELEMENT

Patent Application Number: 2001-237429

Filing Date: August 6, 2001

Inventors: Mayumi IGUCHI et al.

Applicant: TOPPAN PRINTING CO., LTD.

(Page 3, right column, line 32–page 4, left column, line 3)

[0010] A support base material 1 may be any translucent support base material, but is desirably a polymer resin base material in terms of efficiency. Examples thereof include polyethylene terephthalate, polyethylene naphthalate, polypropylene, cycloolefin polymer, polyamide, polyether sulphone, polymethyl methacrylate, polycarbonate, polyarylate, and the like. By the use of a polymer resin base material as the support base material 1, it is possible to provide a product at a low price by producing a film by winding, and to manufacture a light-weight flexible element that is not broken like glass.

[0011] On a surface of the support base material 1, a gas barrier layer 8 may be provided to prevent the entry of moisture or oxygen from the outside. As the gas barrier layer 8, an organic thin film of polyvinyl chloride, polyvinylidene chloride, polychlorotrifluoroethylene, or the like, an inorganic thin film of aluminium oxide, silicon oxide, or the like, and a composite film as well as a laminated film thereof may be used. Among them, an inorganic oxide such as aluminium oxide and silicon oxide is desirable with low permeability to oxygen as well as water vapor. Further, it is desirable in terms of barrier performance and manufacturing cost to produce a film by winding-type electron-beam vacuum deposition.

ORGANIC ELECTROLUMINESCENT ELEMENT

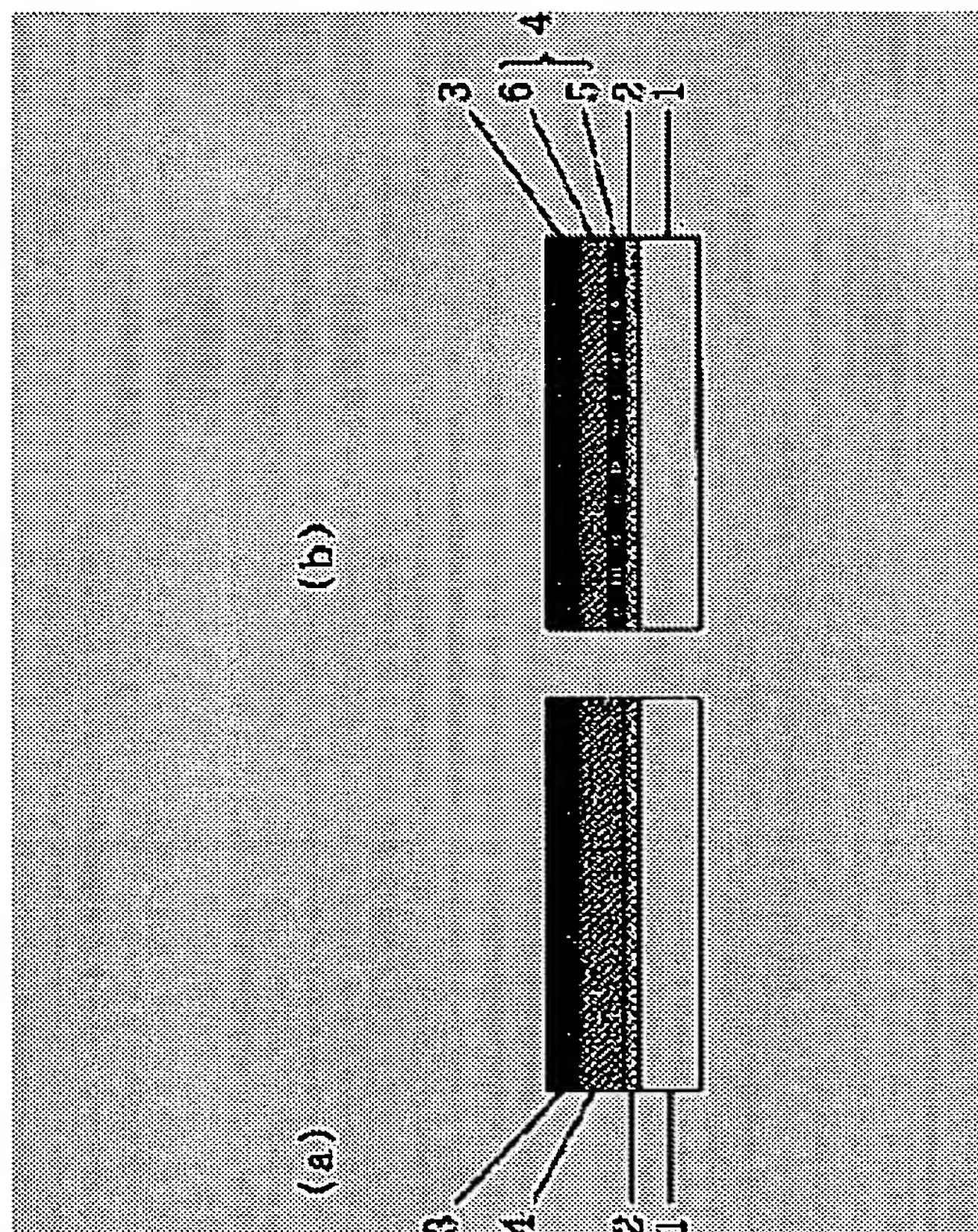
Patent number: JP2003051386
Publication date: 2003-02-21
Inventor: IGUCHI MAYUMI; KAI TERUHIKO; SEKINE NORIMASA
Applicant: TOPPAN PRINTING CO LTD
Classification:
- international: **H05B33/02; H05B33/04; H05B33/14; H05B33/22; H05B33/26; H05B33/02; H05B33/04; H05B33/14; H05B33/22; H05B33/26; (IPC1-7): H05B33/14; H05B33/02; H05B33/04; H05B33/22; H05B33/26**
- european:
Application number: JP20010237429 20010806
Priority number(s): JP20010237429 20010806

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Abstract of JP2003051386

PROBLEM TO BE SOLVED: To provide an organic electroluminescent element of low cost which is flexible and light-weighted, has a long life and high quality, and does not break.

SOLUTION: The organic electroluminescent element includes an amorphous positive electrode and a luminescent medium layer containing an organic compound, and the organic compound contained in the luminescent medium layer is oxidized by electron-accepting dopant not containing protonic acid. The organic compound in a periphery of the positive electrode is oxidized by the dopant. Furthermore, the organic compound oxidized by the dopant is a polymer and the dopant is an organic compound or salt of the organic compound.



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